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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER 07TJ-116264

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. PCT/US2003/038235 INTERNATIONAL FILING DATE 02 December 2002 02 December 2003 TITLE OF INVENTION RARE EARTH COMPOSITIONS AND STRUCTURES FOR REMOVING PHOSPHATES FROM WATER APPLICANT(S) FOR DO/EO/US Rudi E. Moerck and Timothy M. Spitler Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). | X | has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording, A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. X Other items or information: International Search Report; Article 19 Amendments.

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 2

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PTO-1390 (Rev. 02-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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U.S. APPLICATION OF (TKNOWN Sep 3 TF F 1.5)			INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER	
			PCT/US2003/038235		07TJ-116264	
The following fees have been submitted					CALCULATIONS	PTO USE ONLY
21. X Basic national fee				\$300	\$ 300.00	
22. 🖺 Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)					\$ 200.00	
23. X Search Search fee (37 CFF International International Search All other situations.	R 1.445(a)(2)) ha I Searching Aut In Report prepar	\$ 500.00				
т/	OTAL OF 21, 2	2 and 23 =			\$	
Additional fee f sequence listing	or specification	and drawings filed program listing filed	in paper over 100 sheets (ed) in an electronic medium). paper or fraction thereof.	excluding		
Total Sheets	Extra Sheets		additional 50 or fraction p to a whole number)	RATE	·	
22 - 100 =	-0- /50 =			× \$250	\$ 0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).					\$	
CLAIMS	NUME	BER FILED	NUMBER EXTRA	RATE	\$	
Total claims		27 - 20 =	7	x \$50	\$ 350.00	
Independent claims		2 -3=	0	x \$200	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360					\$ 360.00	1
TOTAL OF ABOVE CALCULATIONS =					\$1,710.00	1
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						
SUBTOTAL =					\$1,710.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$	
TOTAL NATIONAL FEE =					\$1,710.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property					\$	
TOTAL FEES ENCLOSED =					\$1,710.00	
					Amount to be refunded:	\$
					Amount to be charged:	\$
b. Please c A duplica	harge my Depo ate copy of this missioner is he		in the amount of	ove fees is enclosed. f \$ to c		DUPU ent to Deposit
_	-		y of this sheet is enclosed. ARNING: Information on this	s form may become pu	blic. Credit card informa	ation should not
be includ	ded on this for	m. Provide credit c	ard information and authoriz	ation on PTO-2038.		
and granted to re	store the Inter	national Application	on to pending status.	• W ~	ΛΛ c.	
Jeffrey A Sheppard 1 333 S. Ho	. McKinne Mullin Ri pe Street	McKinney				
Los Angel	es, CA S	7UU / I		NAME 43,795 REGISTRAT	ION NUMBER	

PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE AS DESIGNATED/ELECTED OFFICE (DO/EO/US)

In re Application of:

Rudi E. Moerck, et al.

Serial No.:

Filed Herewith

Filed:

Filed Herewith

For:

RARE EARTH COMPOSITIONS AND STRUCTURES FOR REMOVING

PHOSPHATES FROM WATER

Atty. Dkt.:

07TJ-116264

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

ATTN: DO/EO/US

CERTIFICATE OF EXPRESS MAIL 37 CFR 1.10

Sir:

I hereby certify that the attached papers are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 CFR 1.10, Mailing Label Number EV 306103823 US addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, ATTN: DO/EO/US on May 27, 2005.

Jordan Wilson

SHEPPARD MULLIN RICHTER & HAMPTON LLP 333 South Hope Street, Floor 48 Los Angeles, CA 9007101406 (415) 434-9100 (tel) (415) 434-3947 (fax)

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G. Peter Nichols 312.321.4276 gpnichols@brinkshofer.com

July 28, 2004

VIA FACSIMILE TRANSMISSION 011 (+41-22) 740.14.35

Attn: Authorized Officer Alex Schmidt

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland

International Application No. PCT/US03/38235 RE:

> Applicant: Altair Nanomaterials Inc. International Filing Date: 02/12/2003

Title: Rare Earth Compositions and Structures for

Removing Phosphates from Water Attorney Docket: 10225/64 (A27)

Dear Sir:

In response to the International Search Report, Applicant encloses an Amendment Under Article 19 and Rule 46, along with new claim pages 11-13.

Respectfully submitted,

G. Peter Nichols

Attorney for Applicant

Altair Nanomaterials Inc.

GPN:am

HOFER GILSON

A PROFESSIONAL CORPORATION INTELLECTUAL PROPERTY ATTORNEYS

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